OBLON SPIVAK

McClelland

MATER *

NEUSTADT

ATTORNEYS AT LAW

Docket No.: 293216US26PCT

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

ATTENTION: MAGDALEN GREENLEF OFFICE OF THE DEPUTY COMMISSIONER PATENT EXAMINATION POLICY

> RE: Application Serial No.: 10/586,368 Applicants: Koji HAYASHI, et al.

Filing Date: July 18, 2006

For: CONTROL SYSTEM FOR HYBRID VEHICLES

Group Art Unit: Examiner:

SIR:

Attached hereto for filing are the following papers:

Request for Participation in the Patent Prosecution Highway (PPH) Pilot Program Between the (1) JPO or (2) UKIPO and the USPTO with Appendices A through G

Our credit card payment form in the amount of \$130.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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on Date:

P. 1

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I hereby certify that this correspondence is being facsimile transmitted to:

Commissioner for Patents Alexandria, VA 22313-1450

ATTENTION: MAGDALEN GREENLIEF

OFFICE OF THE DEPUTY COMMISSIONER

PATENT EXAMINATION POLICY

FAX NO: 571-273-0125

Signature: _

Jacob A. Doughty

Total number of pages including this page: 29

OSMM&N File No.293216US26PCT

Dept.: Chemical

By: <u>SPW/JAD/dlc</u>

Serial No. 10/586,368

In the matter of the Application of: Koji HAYASHI, et al. For: CONTROL SYSTEM FOR HYBRID VEHICLES

Due Date: January 1, 2008

- Credit Card Form for \$130.00
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P. 2

OBLON SPIVAK

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ATTORNEYS AT LAW

Docket No.: 293216US26PCT

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

ATTENTION: MAGDALEN GREENLIEF OFFICE OF THE DEPUTY COMMISSIONER PATENT EXAMINATION POLICY

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1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 U.S.A. TELEPHONE: 703-413-3000 FACSIMILE: 703-413-2220 WWW.OBLON.COM

PTO/SBI20 (09-07)

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REQUEST FOR PARTICIPATION IN THE PATENT PROSECUTION HIGHWAY (PPH) PILOT PROGRAM BETWEEN THE (1) JPO OR (2) UKIPO, AND THE USPTO					
Application I	No.: 10/586,368	First Named Inventor:	Koji HAYASHI		
Filing Date:	07/18/2006	Attorney Docket No.:	293216US26PCT		
Title of the Invention:					
	ST FOR PARTICIPATION IN THE PPH PILC OF THE COMMISSIONER FOR PATENTS A		XED TO: IED TO THE ATTENTION OF MAGDALEN GREENLIEF		
PROGRAM	I AND PETITIONS TO MAKE THE A I.	ABOVE-IDENTIFIED A	IT PROSECUTION HIGHWAY (PPH) PILOT PPLICATION SPECIAL UNDER THE PPH PILOT		
The above JPO applic	identified application validly claims pation(s) or UKIPO application(s).	priority under 35 U.S.C.	119(a) and 37 CFR 1.55 to one or more corresponding		
The 🛛 JP	O ☐ UK!PO application number(s	s) is/are: <u>2004-01431</u> :	В		
The filing	date of the ⊠ JPO □ UKIPO app	lication(s) is/are: _01/	22/2004		
i. Lis	t of Required Documents:				
а. А	copy of all JPO office actions (ex	cluding "Decision to	Grant a Patent"*) in the above-identified JPO		
		PO office actions in the opendix A attached	e above-identified UKIPO application(s). 1 hereto)		
[hereby requests that the USPTO obtain these				
	locuments via the Dossier Access Sy It is <u>not</u> necessary to submit a copy of the		and an English translation thereof.		
			able by the JPO in the above-identified JPO		
a	pplication(s), or a copy of all clain	ns which were determ	ined to be patentable by the UKIPO in the		
a	bove-identified UKIPO application	\ <i>'</i>			
_		dix B attached he			
	Is available via Dossier Acc	ess System. Applicant	hereby requests that the USPTO obtain these		
	ocuments via the Dossier Access Sy				
			s in a. and b. above along with a statement that		
ti	ne English translations are accura	te are attached. (Se	e Appendices C to E attached hereco)		
Informaction	nation disclosure statement listing is is attached. All references	g the documents cited cited in the JPO	in the JPO office actions or UKIPO office Office Actions were previously made of		
Copie	record. s of all documents are attached exce	ept for U.S. patents or L	J.S. patent application publications.		
			• 🕠		

Figs 1 of 2

This collection of information is required by 35 U.S.C. 119, 37 CFR 1.55, and 37 CFR 1.102(d). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. FAX COMPLETED FORMS TO: Office of the Commissioner for Patents at 571-273-0125, Attention: Magdalan Greenlief.

PTO/SB/20 (09-07)

Approved for use through 12/31/2008. OMB 0651-0058

U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR BETWEEN THE	PARTIC (1) JP	O OR (2) UKIPO,	ATENT PROSECU AND THE USPT (continued)	JTION HIGHWAY (PPH) PILOT PROGRAM O			
Application No.:	10/586	.368	First Named Inventor:	Koji HAYASHI			
II. Claims Corre	sponde	ence Table:		·			
Claims in US Application		Patentable Claims in JP/UKIPO Application	Explanation re	garding the correspondence			
			(See Appendic	ces F and G attached hereto)			
III. All the claims JPO or UKIPO a	s in the pplicati	US application su on.	fficiently correspo	ond to the patentable/allowable claims in the			
IV. Payment of I	r is here Depos	eby authorized to cha it Account No Card. Credit Card Pa		· .			
Signature MAD A Name Jacob A. Doughty				Date \ Z (8 \ 46,671			
(Print/Typed)		' /	[Page 2 of 2]	Registration Number			

NO. 189

P. 28

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

APPENDIX G

Claims Correspondence Table

P. 29

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

CLAIMS CORRESPONDENCE TABLE

Claims in US Application	Patentable Claims in JP Application	Explanation regarding the correspondence
Claims 1-21		Claims 1-21 of the US application have been cancelled.
		Claim 22 of the US application is substantially identical to claim 1 of the JP application.
Claim 23	Claim 2	Claim 23 of the US application is substantially identical to claim 2 of the JP application.
Claim 24	Claim 3	Claim 24 of the US application is substantially identical to claim 3 of the JP application.
Claim 25		Claim 25 of the US application has been cancelled.
Claim 26	Claim 4	Claim 26 of the US application is substantially identical to claim 4 of the IP application. US claim 26 differs from JP claim 4 only in that US claim 26 depends solely from US claim 22, while IP claim 4 depends from JP claim 1, JP claim 2 or JP claim 3.
Claims 27-29	-	Claims 27-29 of the US application have been cancelled.
Claim 30	Claim 5	Claim 30 of the US application is substantially identical to claim 5 of the JP application. US claim 30 differs from JP claim 5 only in that US claim 30 depends solely from US claim 22, while JP claim 5 depends from JP claim 1, JP claim 2, JP claim 3 or JP claim 4.
Claims 31-50		Claims 31-50 of the US application have been cancelled.

DOCKET NO: 293216US26PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

KOJI HAYASHI, ET AL.

SERIAL NO: 10/586,368

FILED: JULY 18, 2006

FOR: CONTROL SYSTEM FOR HYBRID

VEHICLES

STATEMENT REGARDING ACCURACY OF ENGLISH-LANGUAGE TRANSLATIONS

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicants state that the English-language translations provided as Appendices C and D to the Request for Participation in the Patent Prosecution Highway (PPH) Pilot Program and Petition to Make Special under the PPH Pilot Program, filed herewith, are accurate.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Customer Number

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Tel: (703) 413-3000 Fax: (703) 413 -2220 (OSMMN 08/07)

Steven P. Weihrouch Attorney of Record U Registration No. 32,829

Jacob A. Doughty Registration No. 46,671

Patented Claims of Japanese Patent No. 3783715 (JPA 2004-014318)

1. A control system for a hybrid vehicle, in which a second prime mover is connected to an output member to which a power is transmitted from a first prime mover through a transmission in which a torque capacity is varied in accordance with an oil pressure, and which has a first hydraulic pump driven by the first prime mover for establishing an oil pressure to be fed to the transmission, and a second hydraulic pump arranged in parallel with the first hydraulic pump and driven by an electric motor, comprising:

a torque limiting means for limiting an output torque of the second prime mover temporarily, at a starting time of the first prime mover.

- 2. The control system for a hybrid vehicle according to Claim 1, further comprising: a hydraulic pump driving means for driving the second hydraulic pump when the first prime mover is halted.
- The control system for a hybrid vehicle according to Claim 2,

wherein the first prime mover includes an internal combustion engine which is started by carrying out a motoring by an external force, and

further comprising a hydraulic pump halting means for halting the second hydraulic pump after a complete combustion in the internal combustion engine is determined.

4. The control system for a hybrid vehicle according to any of Claims 1 to 3, further

comprising:

a halt control means for halting the first prime mover subsequent to driving of the second hydraulic pump, in case of halting the first prime mover when the transmission is set to the predetermined torque capacity by the oil pressure fed from the first hydraulic pump.

- 5. The control system for a hybrid vehicle according to any of Claims 1 to 4, further comprising:
- a hydraulic pump drive determining means for determining a change in a driving state of the first hydraulic pump resulting from shifting of the first prime mover from a halting state to a driving state, on the basis of the operating state of the second hydraulic pump.

JP 3783715 B2 2006.6.7

(19) 日本国特許厅(JP)

٦.

(12)特 許 公 報(B2)

(11) 特許委号

特許第3783715号 (P3783715)

(45) 発行日 平成18	年6月7日 (2006. 6.7)			(24) 登錄日	平成18年3月24	日 (2006.3.24)
(S1) Int. C1. FO2D 29/12 B6OW 20/00 B6OW 10/06 B6OW 10/30 B6OK 6/04	(2006.01) F (2006.01) F (2006.01) B	02D 02D 02D 60K 60K	29/02 29/02 6/04	321B D 321C 310 380 請求項の数5	(全 17 頁)	最終質に続く
(21) 出願番号 (22) 出願日 (65) 公開電号 (43) 公開日 審查請求日	特頭2004-14318 (P2004-143 平成16年1月22日 (2004.1.2 特別2005-207304 (P2005-20 平成17年8月4日 (2005.8.4) 平成17年4月20日 (2005.4.2)	2) 7304A) 0)	(73) 特許權 (74) 代理人 (72) 発明者 (72) 発明者	小爱知识的。 少人果实多的。 100085998。 100085998。 近世太阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳、大阳	トヨタ町1番地	トヨタ自動 トヨタ自動 トヨタ自動
- William Control					表彩	質に続く

(54) 【発明の名称】ハイブリッド車の制御装置

(57)【特許請求の顧開】

【請求項1】

第1の動力源から動力が伝達される出力部材に、油圧に応じてトルク容量が変化する変 速機を介して第2の動力源が連結され、前記第1の動力源によって駆動されて前記変速機 に供給する油圧を発生する第1油圧ポンプと該第1油圧ポンプに対して並列に設けられか つ電動機によって駆動される第2油圧ポンプとを有するハイブリッド車の制御装置であっ て、

前記第1の動力源を始動させる際に前記第2の動力源の出力トルクを一時的に制限する トルク制限手段を備えていることを特徴とするハイブリッド車の制御装置。 【請求項2】

前記第1の動力源が停止中に前記第2油圧ポンプを駆動させる油圧ポンプ駆動手段を更 に備えていることを特徴とする請求項1に記載のハイブリッド車の制御装置。 【請求項3】

前記第1の動力源が外力によってモータリングされて始動される内燃機関を含み、

その内燃機関の完爆が判定された後に前記第2油圧ポンプを停止させる油圧ポンプ停止 手段を更に備えていることを特徴とする請求項2に記載のハイブリッド車の制御装置。 【請求項4】

前記第1油圧ポンプから供給される油圧によって前記変速機が所定のトルク容量になっ ている状態で前記第1の動力源を停止させる場合に、前記第2油圧ポンプを駆動した後、 前記第1の動力源を停止させる停止制御手段を更に備えていることを特徴とする請求項1 10

から3のいずれかに記載のハイブリッド車の制御装置。

前記第1の動力源を停止状態から駆動状態に切り換えることに伴う前記第1油圧ポンプ 【請求項5】 の駆動変化状態を、前記第2油圧ポンプの動作状態に基づいて判定する油圧ポンプ駆動判 定手段を更に備えていることを特徴とする請求項1から4のいずれかに記載のハイブリッ ド車の制御装置。

【発明の詳細な説明】

【技術分野】

[0001]

この発明は、第1の動力源から動力の伝達される出力部材に、第2の動力源を変速機を 介して連結したハイブリッド車を対象とする制御装置に関し、特に第1の動力源によって 駆動される油圧ポンプと、これとは独立した他の電動機によって駆動される油圧ポンプと を備え、これらの油圧ポンプで発生させた油圧によって変速機を動作させるように構成さ れたハイブリッド車の制御装置に関するものである。

· [背景技術]

[0002] いわゆる機械分配式の駆動装置を搭戴したハイブリッド車の一例が、特許文献1に記載 されている。その構成を簡単に説明すると、分配機構を構成しているシングルビニオン型 遊星歯車機構のキャリヤにエンジンのトルクが入力され、またサンギヤに第1のモータ・ ジェネレータが連結され、さらにリングギヤにカウンタドライブギヤなどの出力部材が連 結されている。その出力部材もしくはリングギヤに、変速機を介して第2のモータ・ジェ ネレータが連結されている。その変速機は、全体が一体となって回転する直結段と、出力 回転数が入力回転数より低下する低速段とに切り換えられるように構成され、それらの変 速段を油圧によって動作する係合機構を適宜に動作させることによって設定するようにな

っている。 [0003]

この種のハイブリッド車では、エンジンおよび第1のモータ・ジェネレータの動力によ って走行することができるだけでなく、第2のモータ・ジェネレータから出力されたトル クをアシストトルクとして走行し、あるいは第2のモータ・ジェネレータの出力トルクの みによっても走行することができる。

TO 0 0 4 1

エンジンによって駆動される機械式ポンプに加えて、パッテリーの電力で駆動される電 動ポンプを備えた車両が特許文献2に記載されている。この特許文献2に記載されている 各ポンプは、自動変速機に油圧を供給するためのものであって、エンジンを停止させる条 件が成立した場合に、エンジンを実際に停止させるのに先立って電動ポンプの作動を開始 させるように構成されている。また、特許文献2の発明では、電動ポンプによって発生さ せた油圧が不足する場合には、エンジンの停止を禁止するように構成されている。

[0005]

また、エンジンの出力トルクに電気モータの出力トルクをアシストトルクとして付加し 、そのトルクを無段変速機を介して出力するように構成されたハイブリッド車両を対象と する制御装置が特許文献3に記載されており、この特許文献3に記載された制御装置では 、油圧の不足などによってベルト挟圧力が不充分な状態でのダウンシフトの際に、電気モ - タによるトルクアシストを制限し、ベルト滑りを防止するように構成されている。

[0006]

また一方、機械式オイルポンプと電動オイルポンプとを備えたハイブリッド車において 電動オイルポンプの累積稼動時間や累積回転数などに基づく累積負荷が耐用負荷を超え た場合に、動力伝達装置が動作している間はエンジンの停止を禁止して機械式オイルポン プによって油圧を発生させるように構成された発明が、特許文献4に記載されている。な お、電動機の動作状態が予め定められている熟定格を超えた場合には、その電動機の動作 を制限するように構成された発明が特許文献 5 に記載されている。

50

30

Reference No.: 3094000 Mailing No.: 307178 Mailing Date: August 23, 2005

Notice of Reasons for Rejection

9820 3T00

Application No.:

2004-014318

Issue Date:

August 15, 2005

Examiner:

INABA, Taiki WATANABE, Takeo

Attorney:

Costion 20(2)

Applied Article:

Section 29(2)

The present application is rejected under the following reasons. Any argument should be filed within 60 days from the mailing date of this communication.

Reasons

The below listed claimed inventions of the present application are rejected under Patent Law Section 29(2), because the claimed inventions could easily have been made, prior to the filling of the patent application, by a person with ordinary skill in the art to which the invention pertains, on the basis of the inventions having been described in the publications to be referred to hereinafter which are distributed in Japan or elsewhere or made available to the public through electric telecommunication.

Details (Cited documents are listed in List of Cited References)

- Claim 6
- Cited Document: 1

Remarks

The cited Document 1 discloses an art of obtaining an accumulated operation time of an electric oil pump for feeding oil pressure to a transmission in a hybrid vehicle, by adding the operation time when the pump is activating, by subtracting the operation time when the pump is not activating, and by correcting on the bases of a temperature of an operating oil, so as to inhibit a suspension of an engine in case the accumulated operation time exceeds a preset value, and to allow a suspension of the engine in case the accumulated operation time becomes smaller than the preset value.

Additionally, setting a hysteresis on the preset values for inhibiting and allowing a suspension of the engine is merely a conventional art. Also, in case of taking into consideration the accumulated operation time of the electric oil pump, taking the load on the pump into consideration is a design matter.

Further, the technique of varying a torque capacity (i.e., a belt tension, a clamping pressure of the belt etc. of a CVT) of the transmission of a hybrid vehicle by an oil pressure is also known in the art (e.g., JPA 08-266012, JPA 2000-308207, JPA 2002-089307 etc.).

Reference No.: 30940000 Mailing No.: 307178 Mailing Date: August 23, 2005

List of Cited References

1. JPA 2002-155865

With respect to the inventions except for the claim as pointed out in this Notice of Reasons for Rejection, no reasons for rejection can be found at present. A notice of reasons for rejection will be issued if another reasons for rejection is newly found.

- Any amended description in the specification shall be underlined (cf. Patent Law Implementing Regulation Section 13 Remark 6).
- (2) Amendment shall be limited to the matters originally disclosed in the specification, claims and drawing, or to the matters obvious from the original specification, claims and drawing. In a written argument, reasons for justifying amendments rendered should be indicated clearly specifying the original descriptions in the specification to be the basis of amendment. With respect to the format of the written argument, the applicant may refer to the format of the request for correction of invalidation trial. The applicant should be aware of prior arts with reference to prior art documents when making amendments, if listed any (the prior art documents may be incorporated by reference as a prior art).

Recordal of Searching Result of Prior Art Documents

· Fields Searched:

IPC 7th edition B60K 6/02-6/04

B60L11/00-11-18 F02D29/00-29/06 B60K41/00-41/28 F16H61

- Prior Art Documents:
- 1. JPA 2002-118901
- 2. JPA 2001-041067
- 3. JPA 2000-230442
- 4. JPA 10-212983
- JPA 2003-205768

This recordal of searching result does not constitute the reason for rejection.

Reference No.: 30940000 Mailing No.: 307178 Mailing Date: August 23, 2005 3/E

Any inquiry concerning this Notice of Reasons for Rejection or request for interview should be directed to INABA, Daiki of Second Examination Department of Power Machinery Div.

TEL: 03 (3581) 1101 Ex 3393 FAX: 03 (3580) 6904

9820 3T00

拒絶理由通知書

特許出願の番号

特願2004-014318

起案日

平成17年 8月15日

特許庁審査官

稲葉 大紀

特許出願人代理人

渡辺 丈夫 様

適用条文

第29条第2項

この出願は、次の理由によって拒絶をすべきものである。これについて意見が あれば、この通知書の発送の日から60日以内に意見書を提出して下さい。

理 由

この出願の下記の請求項に係る発明は、その出願前日本国内又は外国において 頒布された下記の刊行物に記載された発明又は電気通信回線を通じて公衆に利用 可能となった発明に基いて、その出願前にその発明の属する技術の分野における 通常の知識を有する者が容易に発明をすることができたものであるから、特許法 第29条第2項の規定により特許を受けることができない。

記 (引用文献等については引用文献等一覧参照)

- 請求項6について
- ・引用文献1

備考

引用文献1には、変速機に油圧を供給する電動オイルポンプを備えるハイブリッド車両において、電動オイルポンプの累積作動時間を、前記ポンプの作動時に加算、停止時に減算し、且つ、作動油温に基づく補正を加えて求め、該累積作動時間が所定値を上回った場合にはエンジン停止を禁止し、該所定値を下回った場合にはエンジン停止を許可する技術が記載されている。

なお、ハンチング防止などの目的のために、エンジン停止を禁止する所定値と 許可する所定値にヒステリシスを設けることは周知技術の適用に過ぎない。また 、電動オイルポンプの累積作動時間を考慮する場合、ポンプ負荷も考慮すること は設計的事項である。

また、ハイブリッド車両において油圧により変速機のトルク容量(無段変速機のベルト張力、ベルト挟圧力など)を変更する技術も従来周知である(例、特開平08-266012号公報、特開2000-308207号公報、特開2002-089307号公報等。)。

引用文献等一覧

1. 特開2002-155865号公報

この拒絶理由通知書中で指摘した請求項以外の請求項1~5に係る発明につい ては、現時点では、拒絶の理由を発見しない。拒絶の理由が新たに発見された場 合には拒絶の理由が通知される。

- (1) 明細書、特許請求の範囲を補正した場合は、補正により記載を変更した個 所に下線を引くこと(特許法施行規則様式第13備考6)。
- (2) 補正は、この出願の出願当初の明細書、特許請求の範囲又は図面に記載し た事項のほか、出願当初の明細書、特許請求の範囲又は図面に記載した事項から 自明な事項の範囲内で行わなければならない。補正の際には、意見書で、各補正 事項について補正が適法なものである理由を、根拠となる出願当初の明細書等の 記載箇所を明確に示したうえで主張されたい。意見書の記載形式は、無効審判に おける訂正請求書の記載形式を参考にされたい。なお、先行技術文献が記載され ている場合は、補正する際に先行技術文献を参照して周知技術等に留意されたい (先行技術文献は周知技術等として授用する場合があります。)。

先行技術文献調査結果の記録

・調査した分野 IPC第7版

B60K 6/02- 6/04

B60L11/00-11/18

F02D29/00-29/06

B60K41/00-41/28

F16H61

- 先行技術文献
- 1. 特開2002-118901号公報
- 2. 特開2001-041067号公報
- 3. 特開2000-230442号公報
- 4. 特開平10-212983号公報
- 5. 特開2003-205768号公報

この先行技術文献調査結果の記録は、拒絶理由を構成するものではない。

この拒絶理由通知の内容に関するお問い合わせ、または面接のご希望がござい

NO. 189 P. 10

整理番号:30940000 発送番号:307178 発送日:平成17年 8月23日 3/

ましたら下記までご連絡下さい。

特許審查第二部 動力機械 稲葉 大紀

TEL. 03(3581)1101 内線3393 FAX. 03(3580)6904

Disclaimer:

This English translation is produced by machine translation and may contain errors. The JPO, the INPIT, and those who drafted this document in the original language are not responsible for the result of the translation.

Notes:

- 1. Untranslatable words are replaced with asterisks (****).
- 2. Texts in the figures are not translated and shown as it is.

Translated: 02:15:37 JST 01/08/2008
Dictionary: Last updated 12/14/2007 / Priority:

Decision to Grant a Patent

Application number: Application for patent 2004-014318

Date of Drafting: Heisei 18(2006) February 17 Patent examiner: INABA, Hiroki 9820 3T00 Title of invention: Control device of a hybrid car

The number of claims: 5

Applicant: TOYOTA JIDOSHA KABUSHIKI KAISHA

Representative: Watanabe Strong

This application is to be granted a patent as there is no reason for refusal.

Director General(p.p.) Director(p.p.) Examiner Assistant examiner Manager for Determination of Classification WADA, Yuji INABA, Hiroki SHOMURA, Yoichi 8612 9820 9718

- 1. Distinction of Patent: Usually
- 2. Reference documents: **
- 3. Application of Patent Law, Section 30: Nothing
- 4. Change of Title of Invention: Nothing
- 5. International Patent Classification (IPC)

F02D 29/02 321B F02D 29/02 D F02D 29/02 321C B60K 6/04 310 B60K 6/04 380 B60K 6/04 400 B60K 6/04 553, B60K 6/04 730, B60L 11/14 ZHV, F02D 29/00 C, F02N 11/04 D

- 6. Deposition of Microorganism
- 7. Display of Purport that Retroactivity of Filing Date is not Accepted

Decision to Grant a Patent(Memorandum)

Application number: Application for patent 2004-014318

1. Technical Fields to Be Searched (IPC, DB Name)

DENK GIND	GIOADEOL 11	00 11/19502020/0	0-29/06B60W10/00-	20/00
えんいん んパンシー	h/OABhOL11/	00=11/18F02D29/0	U-29/UNBNUVV IU/UU-	-/\//\/\

- 2. Reference patent documents JP,2002-155865,A (JP, A) JP,10-212983,A (JP, A) JP,2002-118901,A (JP, A) JP,2001-041067,A (JP, A) JP,2000-230442,A (JP, A) JP,2003-205768,A (JP, A)
- 3. Reference books and magazines

[Translation done.]

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

APPENDIX A

Notice of Reasons for Rejection Issued By JPO

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

APPENDIX C

English-Language Translation of Notice of Reasons for Rejection Issued By JPO

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/386,368 Attorney Docket No. 293216US3PCT

APPENDIX E

Statement Regarding Accuracy of English-Language Translations Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

APPENDIX B

Copy of Claims Determined to be Patentable by JPO

Request for Participation in the Patent Prosecution Highway Pilot Program U.S. Patent Application No. 10/586,368 Attorney Docket No. 293216US3PCT

APPENDIX D

English-Language Translation of Copy of Claims Determined to be Patentable by JPO